Patent Claims

1. A polypeptide isolated from *H. medicinalis* having a molecular weight of about 12 000 ∓1kD with the biological activity of an inhibitor of collagen-dependent platelet adhesion.

2. A polypeptide of claim 1 having an isoelectric point of pH 3.7 ± 0.5

3. A polypeptide of claim 1 or 2 having at cysteine molecules capable of forming __S-S- brigdes

- 4. A polypeptide of claim 1 which comprises an amino acid sequences of SEQ. ID. NO. 1
- 5. A polypeptide comprising an amino acid sequence according to claim 4 which is at least 80% identical to the amino acid sequence of SEQ. ID. NO. 1 over its entire length.
 - 6. An isolated polynucleotide encoding a polypeptide of claims 1-5.
 - 7. An isolated polynucleotide comprising a DNA sequence of SEQ. ID. NO. 2, or a DNA sequence complementary to said DNA sequence wherein said polynucleotide is encoding a polypeptide of claim 1-5.
- 8. The polynucleotide of claim 7 wherein said polynucleotide comprises a DNA sequence that is at least 80% identical to that of SEQ ID NO: 1 over its entire length.
 - 9. An expression vector comprising a part sequence of claims 6-8.
 - 10. A host cell comprising the expression vector of claim 9.
 - 11. An expression system comprising a host cell of claim 10.

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12. A process for producing a polypertide of claims 1-5 comprising a host of claim 10 culturing said host under conditions sufficient for the production of said polypertide and recovering the polypertide from the culture supernatant or cell residue.

- 13. An antibody immunospecific for a polypeptide of claims 1-5.
- 14. A pharmaceutical formulation which comprises a polypeptide according to claims 1-5 and a pharmaceutical acceptable carrier or excipient therefore.
- 15. A pharmaceutical active agent of claim14 for the treatment of thromboembolic processes
- 16. A pharmaceutical formulation of claims 14 or 15 comprising additional drugs wherein the additional drug is selected from aspirin, heparin or streptokinase or a combination thereof.
 - 17. Use of a polypeptide according to comms 1-5 for the manufacture of a medicament for the treatment of thromboembolic diseases.
 - 18. Use of a polypeptide according to claims 1-5 for coating artifical surfaces.
 - 19. Use of a polypeptide according to claims 1-5 for modifying intraocular lenses in order to lessen the thrombogenicity of the lens material.
 - 20. Use of a polypeptide according to maims 1-5 for contacting the lens surface
 - 21. Use of a polypeptide according to claims 1-5 for covalent crosslinking to modify said lens material.
 - 22. Use of antibodies according to claim 13 and polypeptide according to claim 1-5 to measure samples derived from fam 12 or a treated subject.

- 23. A method for identifying compounds which inhibit (antagonize) or agonize the polypeptide of claim 1 -5 by observing the binding, or stimulation or inhibition of a functional response.
- 24. An agonist identified by the method of claim 23.
- 25. An antagonist identified by the method of claim 23.